Journal of
MEDICAL SYSTEMS

Volume 18, Number 1 February 1994

CONTENTS

ARTICLES

Prerequisite Matrix in Decision-Making Process Through the Business Systems Planning (BSP) Study of the Public Health Institute of Split 1
Berezina Matokovic

Forecasting the Demand for Inpatient Services for Specific Chronic Conditions 9
John J. Hisnanick

Analysis of a Claims Database for the Identification of Patients with Carcinoma of the Breast 23
Lawrence J. Solin, Antonio Legorreta, Delray J. Schultz, Howard A. Levin, Steven Zatz, and Robert L. Goodman

A Population-Based Danish Data Resource with Possible High Validity in Pharmacoepidemiological Research 33
Henrik Toft Sørensen and Bente Overgaard Larsen

A Flexible Random Allocation Program for Multi-Institutional Clinical Trials 39
Tomohiro Odaka, Kouhei Akazawa, Yoshiaki Watanabe, Yoshiaki Nose, and Hisakazu Ogura

Journal of
MEDICAL SYSTEMS

Volume 18, Number 2 April 1994

CONTENTS

ARTICLES

Evaluating Relative Efficiencies of Veterans Affairs Medical Centers Using Data Envelopment, Ratio, and Multiple Regression Analysis 55
Steve (Horng-Shu) Hao and C. Carl Pegels

Trends in Department of Defense Hospital Efficiency 69
Yasar A. Ozcan and Richard R. Bannick

A Proposed Computer Diagnostic System for Malignant Melanoma (CDSMM) 85
Suyi Shao and Ralph R. Grams

Information Systems Vendor Support and CQI 97
Bernie Minard

Journal of
MEDICAL SYSTEMS

Volume 18, Number 3 June 1994

CONTENTS

ARTICLES

The Value of Risk-Reducing Information 111
Robert S. Woodward and Stuart B. Boxerman

The Organization of Statistical Activities at Medical Research Institutions 117
Kouhei Akazawa, Maki Sakamoto, Yuko Nishioka, Naoko Kinukawa, and Yoshiaki Nose

Flexible Nursing Staff Planning When Patient Demands Are Uncertain 125
Angus Jeang

Clinical Resource Auditing and Decision Support for Computerized Patient Record Systems: A Mediated Architecture Approach 139
Kip Canfield

A Visual Data Analysis System for the Medical Image Processing 151
Tomohiro Odaka, Tetsuyuki Takahama, Hideaki Wagatsuma, Kazuyuki Shimada, and Hisakazu Ogura

Journal of
MEDICAL SYSTEMS

Volume 18, Number 4 August 1994

CONTENTS

ARTICLES

Enhancing Medical Database Security 159
G. Pangalos, M. Khair, L. Bozios

Radiation Dose and Risk in Screening Mammography 173
David F. Adcock and Duncan B. Howe

Health Service Production in the View of Medical Informatics 179
H.-J. Seelos

Computer Analysis of Auditory Brainstem Responses by Using Advanced Pattern Recognition 191
Tapio K. Grönfors

Decision Trees Based on Automatic Learning and Their Use in Cardiology 201
Peter Kokol, Marjan Mernik, Jernej Završnik, Kurt Kancler, and Ivan Malčić

An Evaluation of Hospital Emergency Department (HED) Adherence to Universal Precautions 207
R. J. Rydman, R. D. Tannebaum, and R. J. Zalenski

Journal of
MEDICAL SYSTEMS

Volume 18, Number 5 October 1994

CONTENTS

ARTICLES

Primary Health Care Computing Analysis of Swedish Maternal Health Records 221
A. K. Singh, S. Kohli, K. Moidu, K. Boström, E. Trell, and O. Wigertz

Status Quo and Future Prospects of the Total Hospital Information System of a Japanese Medical College 229
Hiroyuki Yoshihara

Microsoft Excel Program for Creating Attractive Survival Curves 241
Maki Sakamoto, Kouhei Akazawa, Tatsuro Kamakura, Naoko Kinukawa, Yuko Nishioka, and Yoshiaki Nose

A Scheduling Model for Hospital Residents 251
Irem Ozkarahan

Voting and Priorities in Health Care Decision Making, Portrayed Through a Group Decision Support System, Using Analytic Hierarchy Process 267
Myron Hatcher

How to Structure Clinical Practice Guidelines for Continuous Quality Improvement? 289
E. Andrew Balas, Jerome Puryear, Joyce A. Mitchell, and Bruce Barter

Journal of
MEDICAL SYSTEMS

Volume 18, Number 6 December 1994

CONTENTS

ARTICLES

Applied Medical Informatics for the Pharmacist 299
Lucinda G. Miller

A General Purpose Neural Network Simulator System for Medical Data Processing 305
Tomohiro Odaka, Hidemasa Agata, Hiroshi Furutani, and Hisakazu Ogura

The Ecological Database VODE as the Base for Monitoring and the Study of the Water Quality Parameters Correlation 315
Berezina Matoković and Nives Štambuk-Giljanović

Outpatient Follow-up System Using a Personal Computer for Patients with Hepatocellular Carcinoma after Surgery 329
Hidetoshi Itasaka, Takashi Matsumata, Akinobu Taketomi, Kazuharu Yamamoto, Katsuhiko Yanaga, Kenji Takenaka, Kouhei Akazawa, and Keizo Sugimachi

Hospital Information System and Patterns of Cancer Screening 335
Kiumarss Nasseri, Roshan Bastani, Sol Bernstein, and Lester Breslow